

IN THE SPECIFICATION:

Please amend the first paragraph in page 4 as follow:

In accordance with the principles of the present invention, a thulium-doped fiber amplifier is provided comprising a thulium-doped fiber for amplifying optical signals belonging to S-band; a first pumping unit for outputting amplified spontaneous emission which represents a peak value in a preset wavelength range belonging to C-band to pump the thulium-doped fiber; and a second pumping unit for outputting pumping light belonging to the ~~C-band and different the~~ wavelength band different from the C-band to pump the thulium-doped fiber.

Please amend lines 6-8 in page 7 as follow:

Second pumping unit 300 outputs pumping light belonging to the ~~C-band and a different-wavelength band~~ different from the C-band to pump TDF 420. Second pumping unit 300 includes a second pumping light source 310 and a third WSC 320.